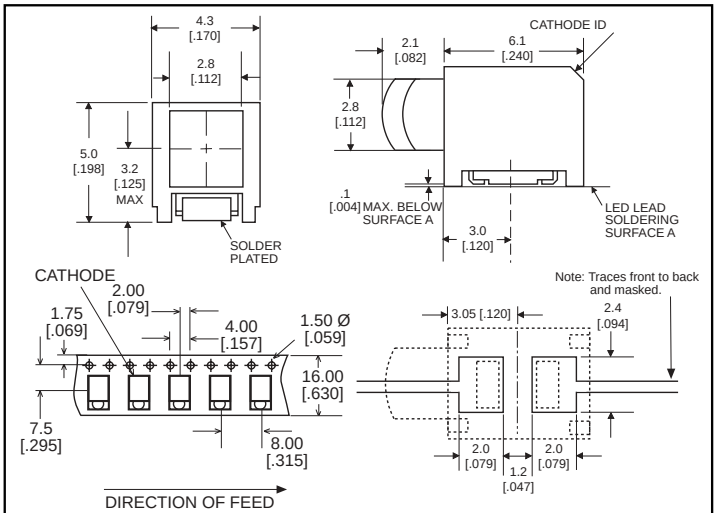
3mm
Prism® CBI®Circuit Board Indicator
Surface Mount LED, High Intensity, Square Lens

591-2101-1xx
591-2201-1xx
591-2701-1xx

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Dimensions in mm [inches]

Part Number*	Type
591-2101-1xx	AlGaAs Red
591-2201-1xx	High Intensity Green NEW
591-2701-1xx	AlInGaP Yellow NEW

Features

- 3mm square lens provides large viewing area.
- Unique patented low part count design.
- Helps to eliminate mixed technology PC boards.
- Compatible with automatic placement equipment.
- Housing material meets UL94V-0 flammability rating.
- Lens material meets UL94-HB flammability rating.
- Compatible with infrared and vapor phase solder processes.
- Black housing enhances contrast ratio.
- Packaged on 16mm tape, 7” or 13" reels per EIA-481-2.
- Uses LEDs designed specifically for surface mounting.

U.S. Patent RE 34,254; foreign patents pending

*** ORDERING INFORMATION**

591-2x01-1xx

packaging option

02	20 pieces on tape
07	7" reel, 400 pcs/reel NEW
13	13" reel, 1600 pcs/reel

Absolute Maximum Ratings, T_A=25°C

Parameter	-2101	-2201	-2701
Color*	21	22	27
Power Dissipation (derate linearly from 25°C mA/°C)	100mA .8	100mA .6	100mA .6
Forward DC Current	40mW	30mW	50mW
Peak Forward Current (10µ sec)	200mW	120mW	160mW
Operating Temperature	-55°C to +100°C		
Storage Temperature	-55°C to +100°C		
Soldering Temperatures Convection IR Vapor Phase	235° Peak, above 185° for 90 sec., 215°C for 3 Min.		

Solder Adherence per MIL-STD-202E, Method 208C
**LED colors: 21) AlGaAs Red 22) High Intensity Green, 27) AlInGaPYellow*

U.S. Patent RE 34,254; foreign patents pending.

Operating Characteristics (T_A = 25°C)

Parameter	Part No.	Color*	Min	Typ	Max	Units	Test Cond.
Forward Voltage V_F	-2101	21		1.8	2.4	V	I_F = 20mA
	-2201	22		2.1	2.6		
	-2701	27		2	2.4		
Reverse Voltage V_R	-2101	21	5			V	I_F = 10 mA
	-2201	22	5				
	-2701	27	5				
Dominant Wavelength λ Dom	-2101	21		638		nm	
	-2201	22		569			
	-2701	27		595			
Luminous Intensity I_V	-2101	21		23.9		mcd	I_F = 10mA
	-2201	22		9.1			
	-2701	27		33.6			
Viewing Angle (2Θ ½)	-2101	21		40		deg.	
	-2201	22		40			
	-2701	27		40			

Θ ½ is the off axis angle at which the luminous intensity is half the axial luminous intensity
**LED colors: 21) AlGaAs Red 22) High Intensity Green, 27) AlInGaPYellow*